H·L Data Storage

Quick Set-up Guide

UHD Blu-ray Disc Rewriter

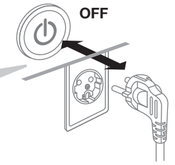
BH16

To install of your product, please read this guide manual carefully and completely.

MFL67902558

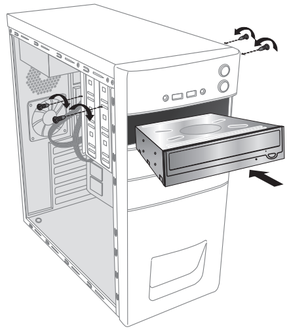
Installing the Drive

Before installing the drive, turn off the system power.



1

Disconnect the power cord, and remove the cover.

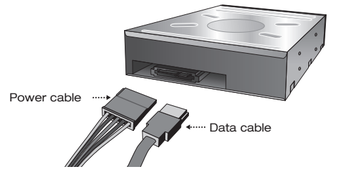


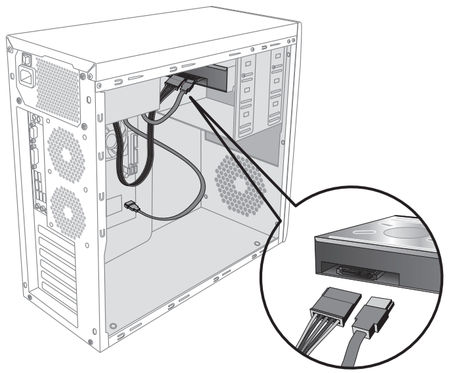
• Remove a vacant 5.25" drive bay panel from the computer. Slide the drive into the drive bay.

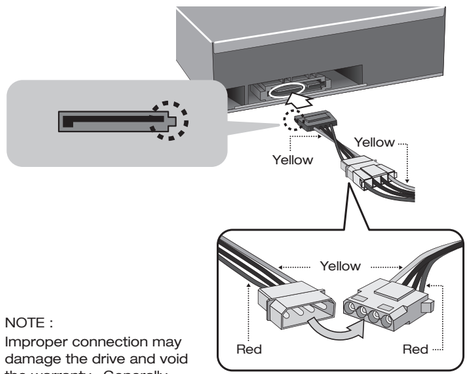
2

Connecting the SATA Power Cable.

• Connect the power cable so the projection of the cable connector side to come to the left side. Be careful not to connect upside down.

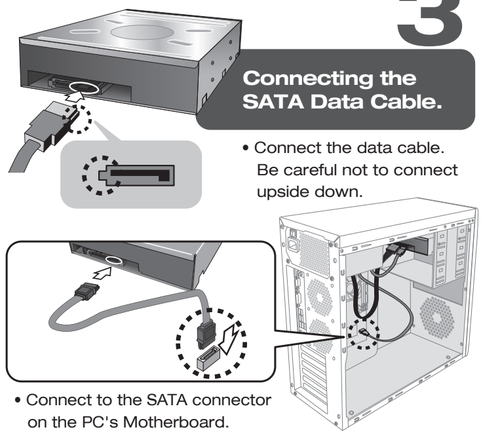






NOTE :
Improper connection may damage the drive and void the warranty. Generally, the power connector can only fit one way.

• Connect to the power connector of the PC.

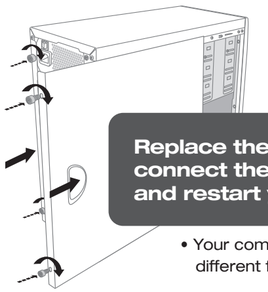


3

Connecting the SATA Data Cable.

• Connect the data cable. Be careful not to connect upside down.

• Connect to the SATA connector on the PC's Motherboard.

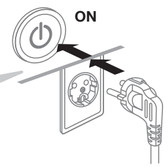


4

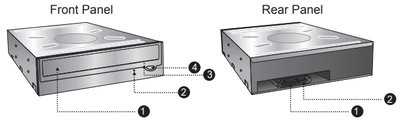
Replace the cover, connect the power cord and restart your computer.

• Your computer configuration may different from the illustrations.

Turn on the system power.



Location and Function of Controls



❶ Disc Tray
❷ Drive activity indicator
❸ Emergency Eject Hole
❹ Eject Button

❶ SATA Power Connector (15 pin)
❷ SATA Data Connector (7 pin)

Recommended media manufacturer	BD-R SL : Sony. BD-R DL : Panasonic. BD-R SL LTH : Taiyo Yuden. BD-R TL/QL : Panasonic/Sony. BD-RE SL : Verbatim. BD-RE DL/TL: Mitsubishi Kagaku Media, Sony. DVD-R : Mitsubishi Kagaku Media, Verbatim. DVD-RW : Mitsubishi Kagaku Media, Verbatim. DVD+R : Mitsubishi Kagaku Media, Verbatim. DVD+RW : Mitsubishi Kagaku Media, Verbatim. DVD±R DL : Mitsubishi Kagaku Media, Verbatim. DVD-RAM : Panasonic. M-Disc (DVD+R SL, BD-R) : Millenniata. CD-R : Mitsubishi Kagaku Media, Verbatim, Taiyo Yuden. CD-RW : Mitsubishi Kagaku Media, Verbatim.

* Compatibility problem in write/read function may occur with media depending on the media manufacturing quality.
* Maximum write (or read) speed depends on system environments.
* There may be some cases when motion picture playback is not smooth depending on bit rate.
* Under Windows 8 operating system, a specific mainboard with nVidia GeForce 7025 Chipset may cause an abnormal operation.
* Please visit http://www.mdisc.com to learn more about the M-DISC™.

Playing UHD Blu-ray Disc Movies *NOTICE*

CPU	Intel 7th Gen. Kabylake Core i3 or higher	
GPU	Intel HD Graphics 630 or higher	
Mother Board	Intel SGX* support	*Software Guard Extension
	HDMI 2.0a (HDR*) support	*High Dynamic Range
	HDCP* 2.2 & 1.4 support	*High-bandwidth Digital Content Protection
O/S	Windows 10	
RAM	6GB or higher	
Network	Need to network access	
Display	UHD (3,840 x 2,160 pixel) resolution support	
	HDMI 2.0a (HDR*) support	*High Dynamic Range
	HDCP* 2.2 & 1.4 support	*High-bandwidth Digital Content Protection

Specifications

General	Supported Discs*1	BD-ROM(SL/DL), UHD BD-ROM(DL/TL), BD-RE*2 (SL/DL/TL), BD-R(SL/DL/TL/QL), BD-R(SL LTH), DVD-ROM(SL/DL), DVD-R(SL,DL), DVD-RW, DVD+R(SL/DL), DVD+RW, DVD-RAM, M-Disc(DVD+R SL,BD-R), CD-ROM, CD-ROM XA, CD-I, Photo-CD (Single & Multi-Session), Video CD, CD-Audio Disc, Mixed mode, CD-ROM disc (data and audio), CD-Extra, CD-Text, CD-R, CD-RW		
	Disc Diameter	12 cm/ 8 cm (8 cm disc can be used only with drive placed horizontally.)		
	Host Interface	Serial ATA		
	Mounting direction	Horizontal/Vertical		
Read/Write Speed *3	Media		Write :	Read :
	BD-ROM	SL/DL	-	12x/8x max.
	UHD BD-ROM	DL/TL	-	8x max.
	BD-R	SL	2x, 4x, 6x, 8x, 10x, 12x, 16x	12x max.
		DL	2x, 4x, 6x, 8x, 10x, 12x	8x max.
		TL	2x, 4x, 6x, 8x	6x max.
		QL	2x, 4x, 6x	6x max.
		SL LTH	2x, 4x, 6x, 8x	8x max.
	BD-RE	SL	2x	10x max.
		DL	2x	6x max.
		TL	2x	4x max.
	DVD-ROM	SL	-	16x max.
		DL	-	12x max.
	DVD-R	SL	2x, 4x, 8x, 16x	16x max.
		DL	4x, 8x	12x max.
	DVD+R SL(M-DISC)		4x	12x max.
	DVD+R	SL	4x, 8x, 16x	16x max.
		DL	2.4x, 4x, 8x	12x max.
	DVD+RW		4x, 6x, 8x	12x max.
	DVD-RW		2x, 4x, 6x	12x max.
	DVD-RAM		2x, 3x, 5x	5x max.
	CD-R		8x, 16x, 24x, 32x, 40x, 48x	48x max.
	CD-RW		4x, 10x, 16x, 24x	40x max.
	CD-ROM		-	48x max.
	CD-DA(DAE)		-	40x max.
	80 mm CD		-	11.5x max.

Performance	Data transfer rate *Sustained	BD: 71.92 MB/s (16x max) DVD: 22.16 MB/s (16x max) CD: 7.2 MB/s (48x max)	
	*Burst(ATAPI)	SATAGen.1 (1.5 Gbps)	
	Average Access Time (1/3 Stroke)	BD-ROM : 180 ms (typ.), DVD-ROM : 160 ms (typ.) DVD-RAM : 180 ms (typ.), CD-ROM : 150 ms (typ.)	
	Buffer capacity	4 MB	
	MTBF	100,000 Power On Hours (Duty Cycle 20 %)	
Environmental Level	When operating	Temperature: 5 °C to 45 °C	Humidity: 15 % to 80 % R.H.
	When not operating	Temperature: -30 °C to 60 °C	Humidity: 10 % to 90 % R.H.

*1 The catridge type disc is not supported.
*2 BD-RE: The disc version 1.0 is not supported.
*3 There might be some cases when this drive can not satisfy the best performance depending on the conditions of the disc, the drive, and the recording format.
* The drive's appearance and specifications may change without prior notice.

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■ The company names and product names written in this manual are trademarks or registered trademarks of the respective companies.

■ The appliance is not intended for use by young children or infirm persons without supervision.
■ Please pay attention to handling Electrostatic Sensitive Devices, you may use anti-static products such as wrist straps, heel straps, mats to protect your body from electrostatic.

Software

Install the appropriate application software(Data writing & Playback) before using this unit.
* Please uninstall any previous application software(Data writing & Playback) you may have loaded on your PC in order to prevent possible compatibility issues.

Once you have installed the application software, you may (if you wish) begin to reinstall previous software, taking note for errors.
We recommend using the drive with the latest software as some problems encountered when using the drive can be solved by updating the software.

Safety Instructions

⚠ CAUTION : The laser used in the Writer can damage your eyes. Do not attempt to open the cover. To reduce the risk of electric shock, do not remove the cover (or back). There are no user-serviceable parts inside. Refer servicing to qualified service personnel. Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

⚠ VORSICHT : Der in diesem Laufwerk benutzte Laser kann Ihre Augen schädigen. Versuchen Sie keinesfalls, die Abdeckung zu öffnen. Um die Gefahr eines elektrischen Schocks zu reduzieren, sollten Sie die Abdeckung (oder Rückseite) keinesfalls entfernen. Im Inneren des Geräts befinden sich keine Teile, die vom Benutzer selbst gewartet werden können. Überlassen Sie die Wartung qualifizierten Kundendiensttechnikern. Beachten Sie bei der Benutzung von Bedienelementen und der Durchführung von Prozeduren unbedingt die Anweisungen dieses Handbuchs, da andernfalls gefährliche Strahlung freigesetzt werden kann.

⚠ WARNUNG : Setzen Sie das Laufwerk keinesfalls Regen oder Feuchtigkeit aus, um die Gefahr eines Brandes oder elektrischen Schocks zu reduzieren.

⚠ ATTENTION : Le faisceau laser utilisé dans ce graveur est dangereux pour les yeux. Ne pas tenter d'ouvrir le couvercle. Ne déposer ni la façade, ni le panneau arrière (risque d'électrocution). Aucun élément interne n'est réparable par l'utilisateur. L'utilisation de commandes ainsi que l'exécution de procédures autres que celles spécifiées dans le présent guide risque de provoquer une dangereuse exposition aux radiations.

⚠ AVERTISSEMENT : Ne pas exposer ce matériel à la pluie ou à l'humidité (risques d'incendie et d'électrocution).

⚠ PERICOLO : Il dispositivo di lettura e scrittura utilizzato in questo masterizzatore utilizza un raggio laser che, se osservato da vicino, può danneggiare la vista. Evitare di smontare il coperchio dell'apparecchio. Al fine di prevenire eventuali folgorazioni, evitare di smontare l'apparecchio. All'interno dell'apparecchio non sono presenti parti che richiedono manutenzione da parte dell'utente. In caso di difetti o guasti, rivolgersi ad un Centro di Assistenza Tecnica. L'esecuzione di procedure diverse da quella espressamente indicate in questo manuale può provocare pericolose esposizioni alle radiazioni laser.

⚠ ATTENZIONE : Al fine di evitare cortocircuiti o principi di incendio, evitare di esporre questo apparecchio alla pioggia o ad una eccessiva umidità ambientale.

⚠ PRECAUCION : El láser utilizado en la unidad puede dañar sus ojos. No intente abrir la tapa. Para reducir el riesgo de descarga eléctrica, no quite la tapa (ni la parte posterior). No hay piezas internas que deba mantener el usuario. El servicio de mantenimiento debe efectuarlo personal técnico cualificado. El uso de controles o la ejecución de procedimientos distintos de los especificados en este manual pueden ser causa de exposición a radiación peligrosa.

⚠ ADVERTENCIA : Para reducir el riesgo de fuego o descarga eléctrica, no exponga este aparato a la lluvia ni a la humedad.

⚠ CUIDADO : O laser utilizado no Gravador pode provocar danos nos seus olhos. Não tente abrir a tampa. Para reduzir os riscos de choques eléctricos, não retire a tampa (nem o painel posterior). Não existem peças ajustáveis pelo utilizador no interior do aparelho. Solicite a assistência de pessoal qualificado para quaisquer trabalhos de reparação. A utilização dos comandos ou a execução de procedimentos para além dos especificados neste manual podem resultar numa exposição perigosa às radiações.

⚠ AVISO : Para reduzir o risco de incêndio ou choque elétrico não exponha este aparelho á chuva ou humidade.

Safety Instructions

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
CLASE 1	PRODUCTO LÁSER
CLASSE 1	PRODOTTO LASER

CAUTION	: CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.
ADVARSEL	: KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	: KLASSE 3B SYNLING OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPENS. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING	: KLASSE 3B SYNLING OCH OSYNLIG LASERSTRÅLNING NÄR DENNAL DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO!	: KURSSI 3B NÄKYVÄ JA NÄKYMÄTÖN AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEN.

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Please refer to the enclosed CD for the user manual.
Wij verwijzen u naar de bijgevoegde CD voor de gebruikershandleiding.
사용 설명서는 동봉된 CD를 참조하십시오.
Veuillez consulter le manuel d'utilisation présent sur le CD-ROM.
Kullanıcı kılavuzunu ürün ile birlikte verilen CD'de bulabilirsiniz.
インストールや詳しい操作方法につきましては、本製品に同梱されておりますCDのマニュアルを参照ください。